

METHOD AND APPARATUS FOR ENHANCING THE EFFECTIVE TIMING MARGIN ON A DIGITAL SYSTEM BUS

ABSTRACT

One embodiment of the present invention provides a system for enhancing the effective timing margins and the reliability of a digital system bus. The system monitors the digital system bus to determine the data flow between devices on the digital system bus. If an absence of data flow is detected, the system generates a pseudo-data signal to replace the normal data signal on the digital system bus. This pseudo-data signal is broadcast on the digital system bus, in order to keep the digital system bus active, thereby preventing subsequent transmissions from suffering from effects caused by an inactive digital system bus.